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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/493,603	01/28/2000	Sung-Bae Jun	P-081	2452

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EXAMINER	
NGUYEN, MAIKHANH	
ART UNIT	**PAPER NUMBER**
2176	7

DATE MAILED: 03/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/493,603	JUN, SUNG-BAE	
	Examiner	Art Unit	
	Maikhanh Nguyen	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *06 January 2004*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-21* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *3,6,10-12 and 19-21* is/are allowed.

6)☒ Claim(s) *1-2, 4-5, 7-9 and 13-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to communications: Amendment A filed 01/16/2004 to the original application filed 01/28/2000.

2. Claims 1-21 are currently pending in this application. Claims 1, 4, 9 and 13 are independent claims.

3. If a copy of a provisional application listed on the bottom portion of the accompanying Notice of References Cited (PTO-892) form is not included with this Office action and the PTO-892 has been annotated to indicate that the copy was not readily available, it is because the copy could not be readily obtained when the Office action was mailed. Should applicant desire a copy of such a provisional application, applicant should promptly request the copy from the Office of Public Records (OPR) in accordance with 37 CFR 1.14(a)(1)(iv), paying the required fee under 37 CFR 1.19(b)(1). If a copy is ordered from OPR, the shortened statutory period for reply to this Office action will not be reset under MPEP § 710.06 unless applicant can demonstrate a substantial delay by the Office in fulfilling the order for the copy of the provisional application. Where the applicant has been notified on the PTO-892 that a copy of the provisional application is not readily available, the provision of MPEP § 707.05(a) that a copy of the cited reference will be automatically furnished without charge does not apply.

Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b),by another filed in the United States before the invention by the applicant for patent or (2)a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a)shall have the effects for the purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2)of such treaty in the English language; or " (Emphasis added.)

Claims 1-2, 4-5, 7-9 and 13-18 remain rejected under 35 U.S.C. 102(e) as being anticipated by **Smith et al.** (U.S. 6,223,183).

As to independent claim 1, Smith teaches a method of describing a multiple level digest segment information scheme for multimedia contents in order to provide multiple levels of digest streams for each multimedia content with small amount of additional storage (*uniformly describing space and frequency views... including regions, tilings and hierarchical decompositions of image, video, audio content, and time series data in space, time, frequency and resolution. The space and frequency view description scheme provides a way to specify regions in space, time, frequency and resolution in term of space and frequency views*; *Abstract)* in accordance with an embodiment comprising the steps of:

- describing the level information of digest segments by multiple levels in the content-based data area of the multimedia stream (*describe any arbitrary multi-resolution decomposition of any number of levels of the image or video data*; *col.6, lines 41-55);*

- describing the digest level information and the time range information of each digest segment in a digest segment information structure (*the space and frequency view description scheme defines several object classes for specie regions in multi-dimensional rectangular region in space and frequency ...to describe locations, durations, sizes and regions in space and frequency*; col. 7, lines 9-30/ *The view requests can be represented in the form of SFViews to provide a uniform, standard interface for specifying the space, time, frequency and resolution parameters of the views*; *col. 11, lines 15-23)*; and

- describing digest segment information scheme with a set of digest segment information structures (*the space and frequency view description scheme can provide an abstraction layer between image, video and audio description schemes*; *col.10, lines 30-50/it can be important to describe the color of different regions of the image... The space and frequency view description scheme can be used to specify each of the regions in terms of SFViews, and by associating a color measurement function with the space and frequency view description scheme*; *col.12, lines 10-18 and Fig. 15).*

As to dependent claim 2, Smith teaches the time range information is the start point and end point of or the start point and duration of the digest segment *(col.4, lines 13-65).*

As to independent claim 4, the rejection of independent claim 1 above is incorporated herein in full. However, claim 4 further recites "a digest stream information scheme with a set of digest level headers."

Smith teaches a digest stream information scheme with a set of digest level headers *(col.8, lines 32-45 & Fig. 10).*

As to dependent claim 5 includes the same limitations as in claim 2, and is similarly rejected under the same rationale.

As to dependent claim 7, Smith teaches the digest level headers can be arranged with the order of importance (level) in order to construct a digest stream from multi level digest segment information scheme fast *(Fig. 10)*.

As to dependent claim 8, Smith teaches the digest level segment information structures can be arranged with the order of their time range information in order to construct a digest stream from multi level digest segment information scheme fast *(col.5, lines 13-65)*.

As to independent claim 9, Smith teaches a method of generating multiple levels of digest streams for multimedia contents (*uniformly describing space and frequency views... including regions, tilings and hierarchical decompositions of image, video, audio content, and time series data in space, time, frequency and resolution. The space and frequency view description scheme provides a way to specify regions in space, time, frequency and resolution in term of space and frequency views*; *Abstract)* in accordance with the present invention comprising the steps of:

- detecting the digest level and time range information of the digest segment information structures from the multiple level digest stream information scheme contained in the content-based data area of the multimedia stream (*the space and frequency view description scheme defines several object classes for specie regions in multi-dimensional rectangular region in space and frequency ...to describe locations, durations, sizes and regions in space and frequency*; col. 7, lines 9-30/ *The view requests can be represented in the form of SFViews to*

provide a uniform, standard interface for specifying the space, time, frequency and resolution parameters of the views; col. 11, lines 15-23);

- when a condition is queried by the user, generating a multiple level digest stream by arranging the digest segments with a priority of more than a certain level corresponding to the condition in a time sequence (*the client can send the requests for different multi-resolution sub-region views to the server. The server can respond by retrieving the views from storage and transmitting the results to the client. The view requests can be represented in the form of SFViews to provide a uniform, standard interface for specifying the space, time, frequency and resolution parameters of the views. The data at the server can also be represented using SFPartitionings or SFHierarchical decompositions to provide a standard way for accessing the views; col.10, line 65-col.11, line 23).*

As to independent claim 13, the rejection of independent claim 9 above is incorporated herein in full. However, claim 13 recites:

- a user input unit; and

- a decoder for decoding digest segments of the above digest level from the multimedia stream signal.

Smith teaches:

- a user input unit (*a client application can send requests for views of images*; abstract);

- a decoder for decoding digest segments of the above digest level from the multimedia stream signal (*The view requests can be represented in the form of SFViews to provide a uniform, standard interface for specifying the space, time, frequency and resolution parameters of the views. The data at the server can also be represented using SFPartitionings or*

SFHierarchical decompositions to provide a standard way for accessing the views; col.11, lines 14-23).

As to dependent claim 14, Smith teaches the condition is the running time of a digest stream *(col.5, lines 13-53).*

As to dependent claim 15, Smith teaches the condition is one of a time constraint of digest stream, a level information of digest stream, an occurrence of an event, an appearance of a person, a background, an object, situation information about of event, person, object, background *(col.5, lines 13-53 & Figs.12-14).*

As to dependent claim 16, Smith teaches the condition is combination of a time constraint of digest stream, a level information of digest stream, occurrence of events, appearance of persons, backgrounds, objects, situation information about of events, persons, objects, backgrounds *(col.5, lines 13-53 & Figs.12-14).*

As to dependent claim 17, Smith teaches a digest level information and a time range information, and/or the information of the sum of the running time of each digest segment are contained in the digest level *(col.3, lines 14-20 & col.5, lines 13-53).*

As to dependent claim 18, includes the same limitations as in claim 2, and is similarly rejected under the same rationale.

Allowable Subject Matter

4. Claims 3, 6, 10-12 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments filed 01/06/2004 have been considered but they are not persuasive.

Applicant argues that *because the U.S. Patent and Trademark Office has not provided the Smith provisional application, the outstanding rejection based upon the Smith patent should be withdrawn.* (Remarks, page 10)

In response, a copy of the Smith provisional application is provided, and Smith reference is remained for rejection.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (703) 306-0092. The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maikhanh Nguyen
March 15, 2004

JOSEPH FEILD
SUPERVISORY PATENT EXAMINER